[Fig. 1]

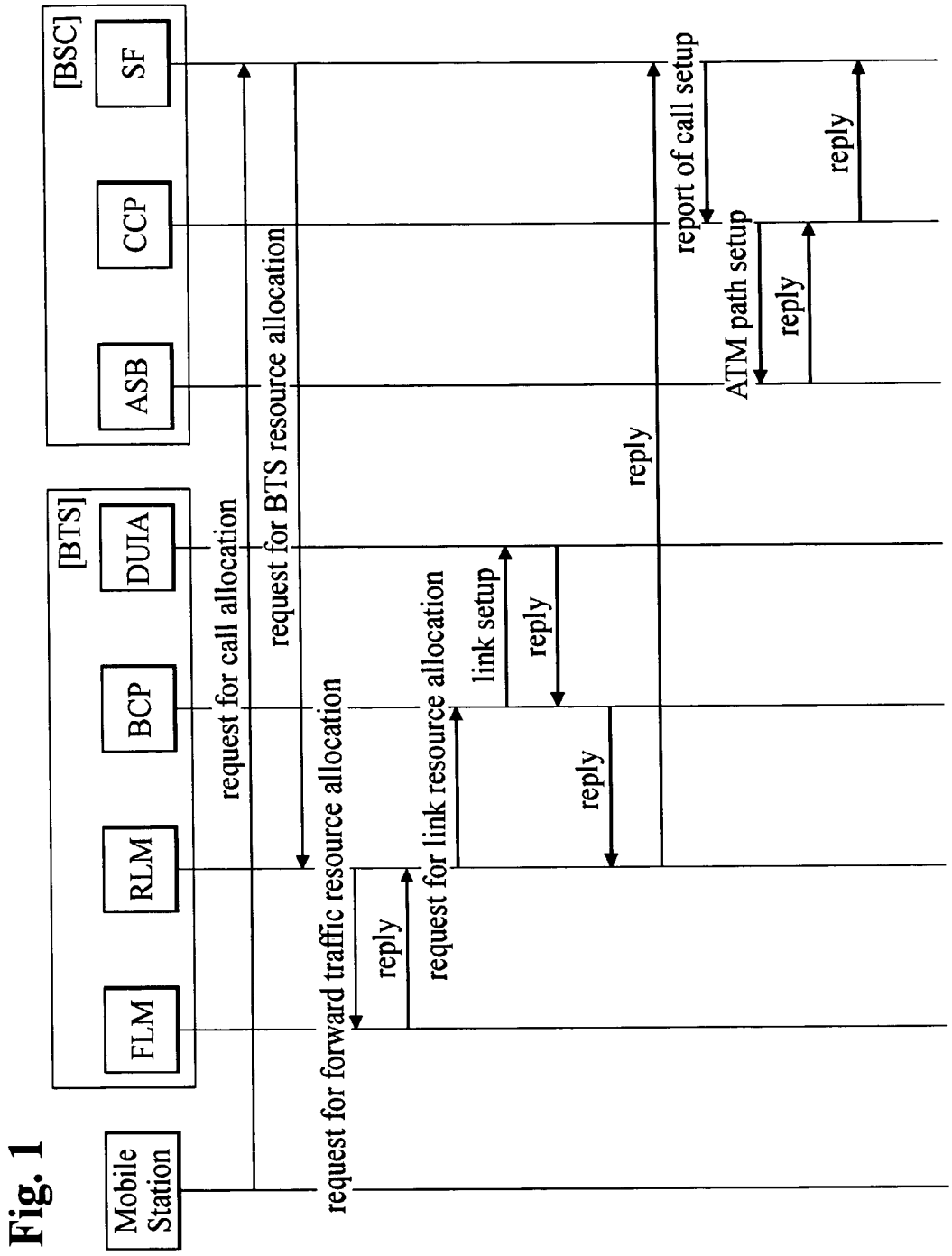
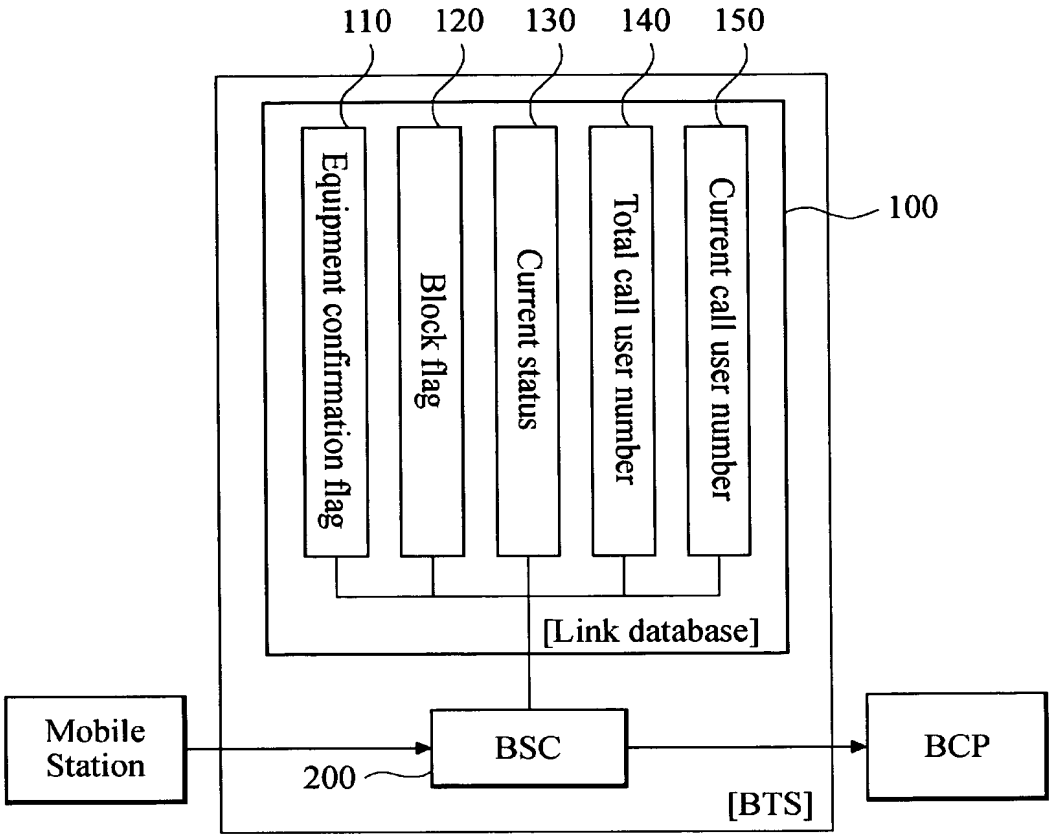

Mobile Station
[BTS]
FLM
RLM
BCP
DUIA
[BSC]
ASB
CCP
SF
request for call allocation
request for BTS resource allocation
request for forward traffic resource allocation
reply
request for link resource allocation
link setup
reply
reply
reply
report of call setup
ATM path setup
reply
reply

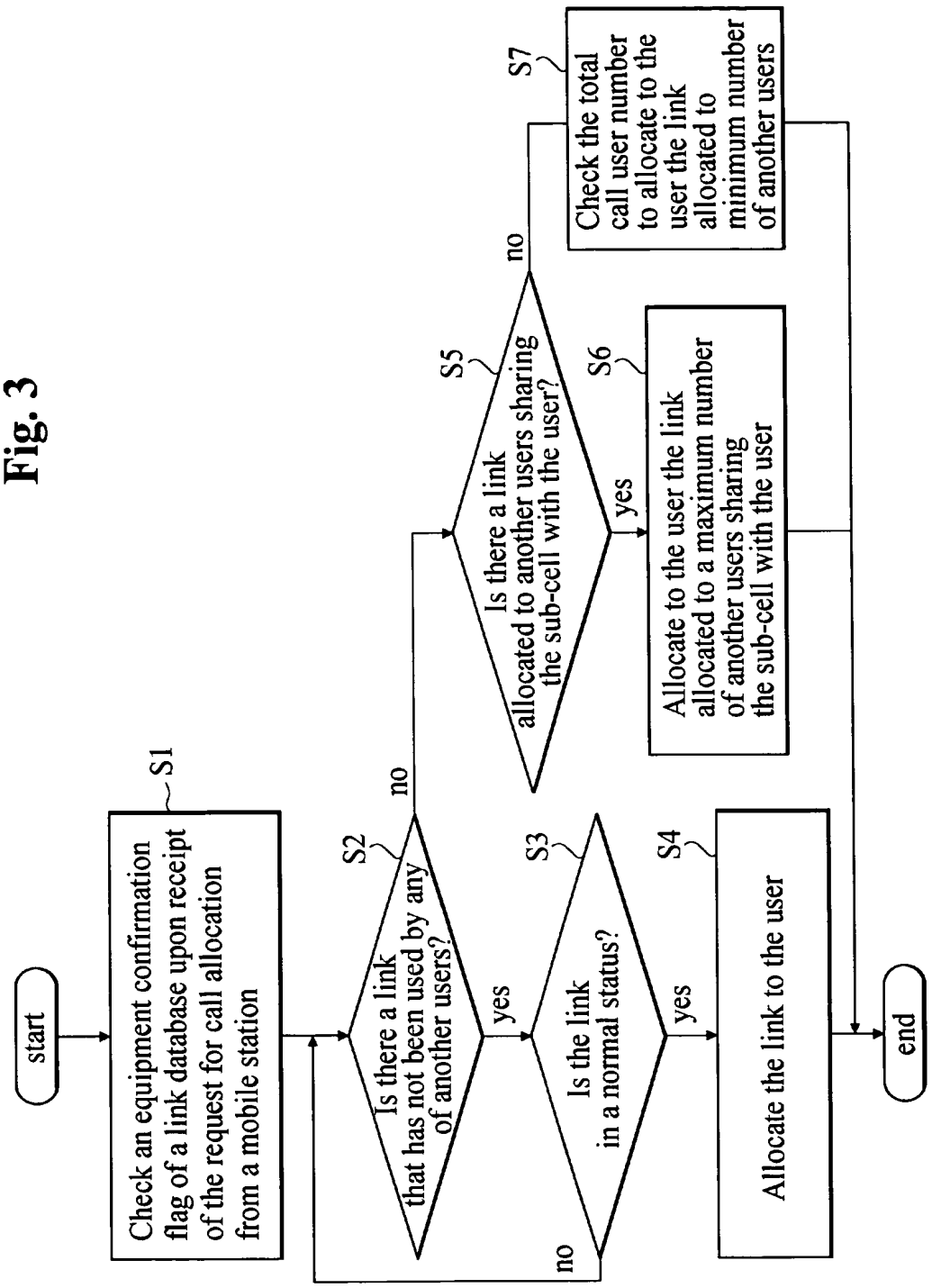
Fig. 1

[Fig. 2]


110
120
130
140
150
Equipment confirmation flag
Block flag
Current status
Total call user number
Current call user number
100
[Link database]
Mobile Station
BSC
200
BCP
[BTS]

[Fig. 3]

Fig. 3


start
S1
Check an equipment confirmation flag of a link database upon receipt of the request for call allocation from a mobile station
S2
Is there a link that has not been used by any of another users?
no
yes
S3
Is the link in a normal status?
no
yes
S4
Allocate the link to the user
S5
Is there a link allocated to another users sharing the sub-cell with the user?
no
yes
S6
Allocate to the user the link allocated to a maximum number of another users sharing the sub-cell with the user
S7
Check the total call user number to allocate to the user the link allocated to minimum number of another users
end